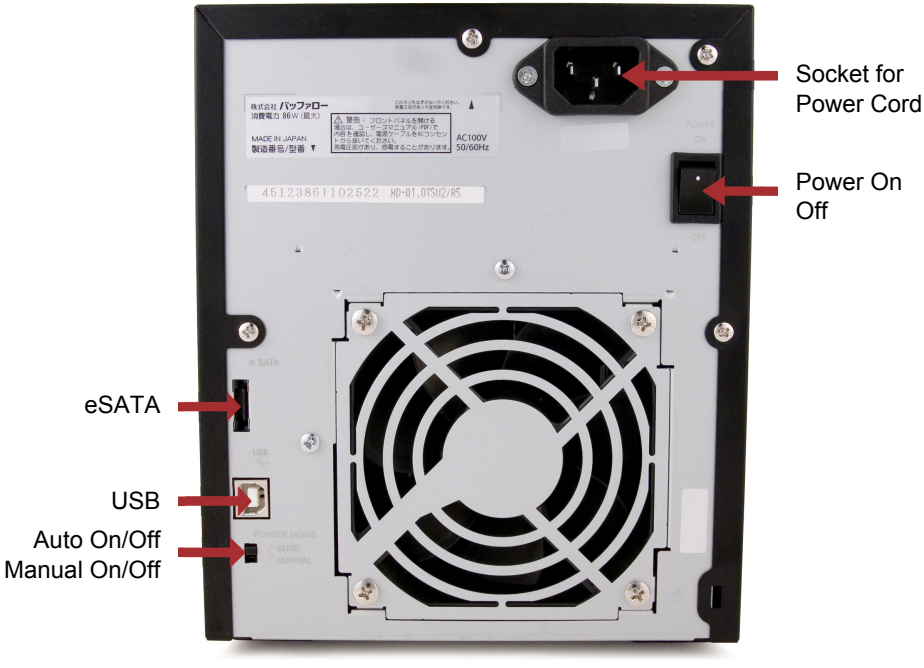
PC User Guide

HD-QSTSU2/R5 DriveStation Quattro

BUFFALO™

Package contents:

- Main Unit (DriveStation)
- Power Cord
- USB Cable
- eSATA Cable
- eSATA Backplate
- DriveNavigator Installation CD
- User Guides

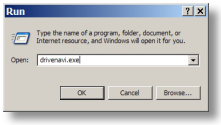


Note: Changing between RAID modes is done with the RAID Utility, included with the software on your DriveNavigator CD.

Congratulations on your new DriveStation Quattro! With four separate hard drives inside, the DriveStation Quattro gives you many options for large, economical capacity and easy-to-use redundancy.

To begin, insert the DriveNavigator CD in your PC. The setup program will run. Follow the steps to connect your DriveStation Quattro.

If the setup program doesn't run automatically, click *Start*, then *Run*, and then type "d:\drivenavi.exe" in the *Open* window. Click *OK*.



Click *Begin Installation* to begin.

Click *Setup.* The wizard will step you through setting up your DriveStation Quattro, configuring your RAID settings, and reformatting if desired.

The DriveStation Quattro may be connected to your computer with either a USB connection or an eSATA connection. The eSATA connection will usually give higher performance. If you you will be changing RAID modes or reformating the drives during setup, use the USB cable to connect the Quattro to your PC, at least until setup is complete. You may switch to the eSATA connection after setup is complete.

Use either the eSATA cable or the USB cable to connect the Quattro to your computer at any given time. Do not connect both at once!

After completing the setup wizard, your DriveStation Quattro is installed and ready to use!

By default, your Quattro is configured in RAID 0 Mode. This gives you maximum usable capacity and performance, but no redundancy. If a drive fails, all data on the DriveStation is lost. If you would prefer a different RAID configuration, you may use the RAID Utility to change your DriveStation's RAID settings. Turn to the next page for instructions on using the RAID Utility.

Out of the box, the DriveStation is formatted with FAT32, allowing it to be used with most common operating systems. If you're going to use it with programs that generate filesizes larger than 4GB, such as backup software, reformat the DriveStation as an NTFS drive.

The RAID Utility allows you to configure your DriveStation Quattro in several modes:

Normal Mode - Appears to your computer as four separate hard drives.

Spanning Mode - Appears to your computer as one large hard drive.

RAID 0 Mode - Appears to your computer as a single drive. Higher performance than Spanning Mode.

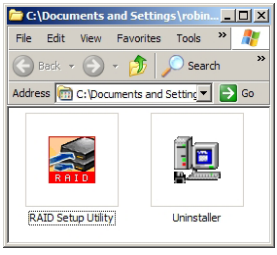
RAID 1 Mode - Appears to your computer as a single drive. The third and fourth drives keep an exact copy of the first and second drives, for redundancy.

RAID 5 Mode - Appears to your computer as a single drive. Approximately 3/4 of your total space is usable, yet you still have full redundancy.

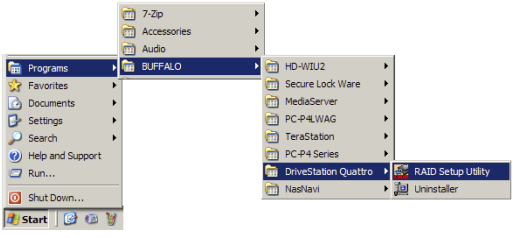
Note that changing the mode of the drives in your Quattro will erase all data on them! Back up any important data before using the RAID utility.

You should be connected to the DriveStation with a *USB cable* while running the RAID utility. You may switch to an eSATA connection for normal use after the utility has run.

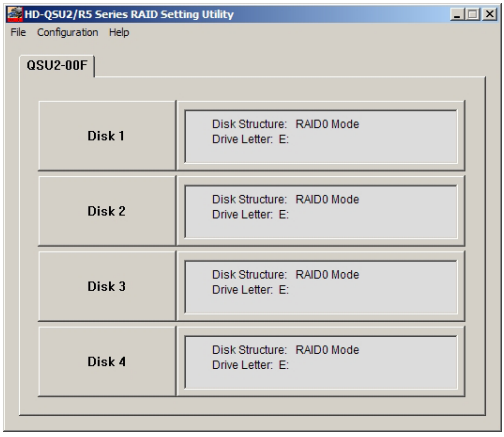
You may launch the RAID Utility by clicking on *RAID Setup Utility* in the *DriveStation Quattro* program group.



Or, you can launch the program from the Start menu:

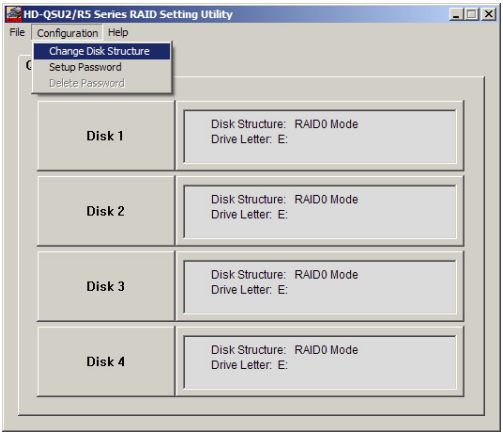


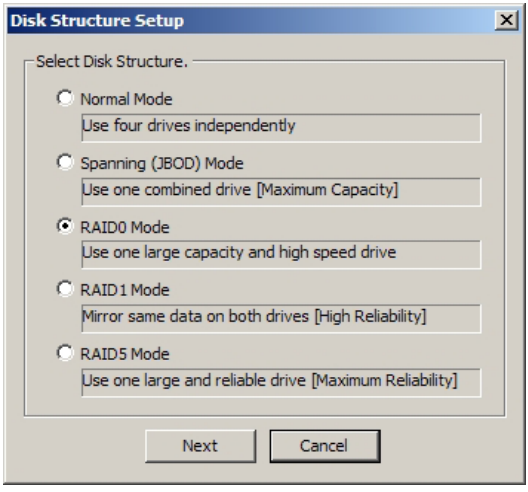
Once launched, the RAID Utility will briefly scan for your DriveStation Quattro. This may take a few seconds.



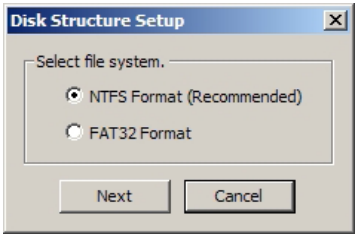
The initial screen will show your current configuration. If your Quattro is new, it will probably be in RAID 0 mode, with one high-performance partition. If you want better data security, Buffalo recommends RAID 5 mode, with its excellent balance of security and total capacity.

To change the RAID mode, click *Configuration* and choose *Change Disk Structure*.

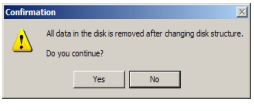


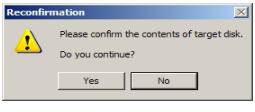


Select the drive structure that you'd like to use.



After rebuilding the disk structure, the disk will be formatted with FAT32 or NTFS. Select the format that you prefer. FAT32 is compatible with most Windows PCs, Macs, and Linux. NTFS offers the best performance with Windows 2000 and XP machines, but isn't compatible with other operating systems. NTFS is recommended for use with backup, video editing and other programs that may need filesizes larger than 4GB.





Click *Yes*, and *Yes* again. Understand that this will erase any data on the drive!

The DriveStation includes several optional disk utilities. To install and use these utilities, insert the CD-ROM that came with your DriveStation into a Windows PC.

Click *Begin Installation* and then *Additional Software Installation*.

Memeo AutoBackup software is available for backing up documents, multimedia files, and other files from your Windows PC to the DriveStation. A license for using Memeo on a single PC or workstation is included with your DriveStation. Please view the Memeo documentation for more information on installing and using memeo. As with all backup programs, format the DriveStation with NTFS before use with Memeo backup software.

Disk Formatter lets you easily reformat your DriveStation.

SecureLockWare encrypts the data on your DriveStation, preventing the data from being accessed by anyone but you.

To learn more about installing and using these utilities, click on *View Documentation*.

If your hard drives are in "Normal" (JBOD) mode, then the *Drive Select* button lets you choose which of the 4 separate drives will be seen as the primary drive by your PC.

If you are using a USB connection with JBOD mode, then you will still be able to see all four separate hard drives in My Computer. If you are using an eSATA interface to connect Quattro only one single drive will be active in this mode. Use the Drive Select button to chose which drive will be active in this case.

If four separate drives are not desired, use RAID 0, RAID 1, or RAID 5 instead of "Normal" (JBOD) mode. You may switch between RAID modes with the RAID utility during installation. The utility may also be installed or run from your DriveNavigator CD.

If you've changed the Quattro's RAID mode to normal (JBOD) mode with the RAID setting utility, disconnect the Quattro from the computer. Hold the *Select* button for three seconds or until the Power LED is lit orange and beeps. Click the *Select* button again to change which single drive is activated. You can see which drive is selected by its Access LED.

Here's what the LED colors mean:

Green: Selected and activated.

Orange: Not selected but activated. If you are using a USB connection the drive will still be visable in My Computer. With an eSATA connection, only the selected drive will be usable.

Off: Not selected and invisible to your PC.

If you are in a RAID mode where the four drives appear as a single drive, such as RAID 0, 1, or 5, then the Drive Select button is disabled.

FAQ

The following is a list of common issues with the DriveStation. Following each issue are possible resolutions.

I see the DriveStation in *My Computer* but I cannot access it.

The drive requires formatting. Try using the Disk Formatter Utility on the DriveNavigator CD-ROM. Consult the manual for the Disk Formatter Utility for more help. The manual can also be found on the DriveNavigator CD-ROM.

I cannot see the DriveStation in *My Computer*.

Verify that the POWER light is on. If it is not, then ensure that the power switch is in the ON position.

Try toggling the POWER MODE switch right below the power switch. The POWER MODE switch toggles whether the device is powered up via a USB signal ("Auto") or purely based on the power switch's position ("Manual").

If you have installed the Power Save Utility, then verify that the DriveStation was not put into power saving mode. Consult the manual for the Power Save Utility for additional help. The manual can be found on the DriveNavigator CD-ROM.

Verify that the hard drive inside the DriveStation is spinning. This can be verified by placing your hand on the sides of the case and feeling for a slight vibration. Also, after the DriveStation has been powered on for fifteen minutes or more it will begin to get warm. If neither of the proceeding tests verified that the hard drive is spinning, then please contact technical support for further assistance.

My backup program can't save files to the DriveStation.

Reformat your DriveStation with NTFS. FAT32 is limited to 4GB filesizes.

Standard Compliance:	USB 2.0; eSATA
Seek Time:	Max. 11 milliseconds
Transmission Speed:	Max. 1.5 Gbps (eSATA), Max. 480 Mbps (USB 2.0)
Power Consumption:	Max. 86W
Power Supply:	AC100~120V 50/60Hz (USA and Taiwan) AC200~240V 50/60Hz (Europe and other countries)
Dimensions:	6.5" x 8.0" x 9.5" (165 x 203 x 242 mm)
Weight:	12.8 lbs. (5.8 kgs)
Operating Environment:	41 - 95° F (5 - 35° C) 20-80% humidity (non-condensing)
PC OS Compatibility:	Windows 2000, XP, Vista, Mac OS X

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

⚠ DO NOT OPEN UNIT COVER.

www.buffalotech.com

USA/Canada Technical Support is available 24 hours a day, 7 days a week

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